Contents

G.E. Hinton
Preface to the Special Issue on Connectionist Symbol Processing 1

D.S. Touretzky
BoltzCONS: Dynamic symbol structures in a connectionist network 5

G.E. Hinton
Mapping part–whole hierarchies into connectionist networks 47

J.B. Pollack
Recursive distributed representations 77

M. Derthick
Mundane reasoning by settling on a plausible model 107

P. Smolensky
Tensor product variable binding and the representation of symbolic structures in connectionist systems 159

M.F. St. John and J.L. McClelland
Learning and applying contextual constraints in sentence comprehension 217

P. Thagard, K.J. Holyoak, G. Nelson and D. Gochfeld
Analog retrieval by constraint satisfaction 259

J.Y. Halpern
An analysis of first-order logics of probability 311

T. Hrycej
Gibbs sampling in Bayesian networks (Research Note) 351

V. Lifschitz
Frames in the space of situations (Research Note) 365

Announcements 377

Forthcoming Papers 391

Author Index – Volume 46, 1990 396

Contents – Volume 46, 1990 397